

Energy Storage Safety Outreach and Incident Response Working Group Meeting

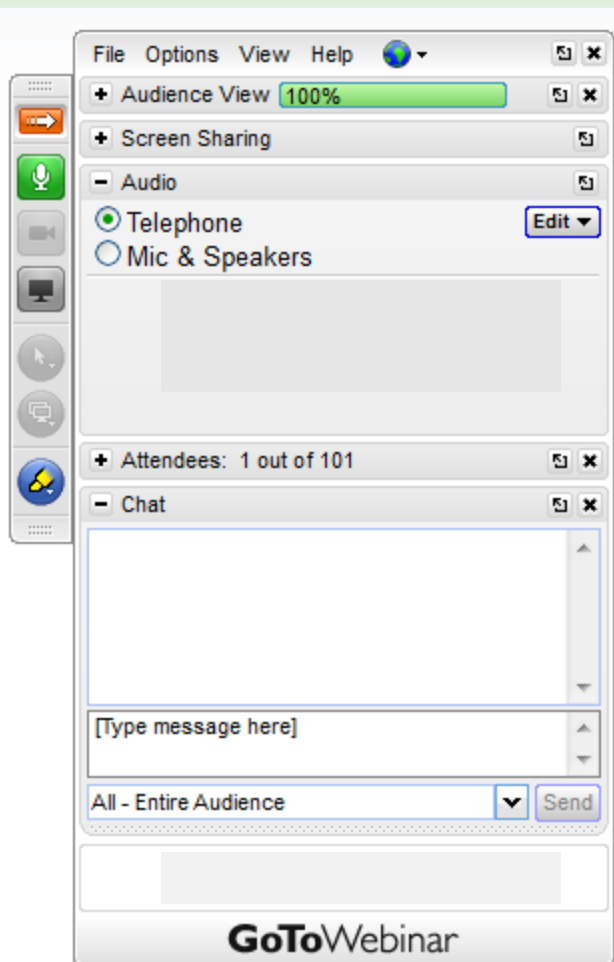
October 7th, 2015

Hosted by

David Rosewater
Sandia National Laboratories
On Behalf of the ESSWG

SAND2015-8741 PE

GotoMeeting Housekeeping



- All participant lines are muted at first. During Q&A, if you would like to say something to the group, please use the “raise hand” feature. Please identify yourself each time you speak.
- If you have a question or need assistance during the meeting, please send a message to “Organizer(s) Only” in the chat box at the bottom of the menu.

This webinar is being recorded. Its distribution will be a question for the working group.

Energy Storage Safety Working Group (ESSWG) Webinar Agenda



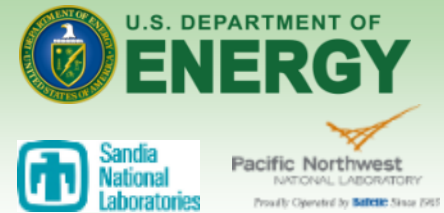
02:30 pm – 02:35 pm	Welcome and GotoWebinar Housekeeping
02:35 pm – 02:45 pm	Welcome and Introductory Comments - Agenda Overview
02:45 pm – 02:55 pm	SO&IR WG Framework Overview - Tasks and Task Descriptions
02:55 pm – 03:05 pm	Website Development Plan
03:05 pm – 03:15 pm	SO&IR Survey Overview - 5 Questions - Due October 23 rd
03:15 pm – 03:30 pm	Field Questions From the Group - Next Meeting Info

Energy Storage Safety Outreach and Incident Response Working Group Scope of Work



- Supported by DOE Office of Electricity Energy Storage Program
- DOE OE Energy Storage Safety Plan developed by ESS WG and focused on safety associated with all stationary ESS
- Projects to address gaps, needs and opportunities in three areas:
 - Safety Validation and Risk Assessment (Ferreira SNL)
 - Codes and Standards (Conover PNNL)
 - **Safety Outreach and Incident Response (Rosewater SNL)**

Energy Storage Safety Outreach and Education Working Group



POC: David Rosewater, Email: dmrose@sandia.gov, Phone: 505 844 3722

Topical Area - Safety Outreach and Incident Response

- **Outline and implement a plan to educate, engage, and train stakeholder communities** on applying criteria and practices to ensure that systems are safe when placed into service and the first-responder community is equipped to respond, if there is an incident.

Proposed Organization

- Facilitated Web-Based Meetings Held Monthly (at first)
- Tackle the Top Issues First
- Work Closely with the Other Working Groups
- Materials will be reviewed by Sandia/PNNL and made available on stakeholders and industry websites
- **Most Important:** Materials will be made available to key stakeholders (fire-fighters, electrical inspectors, regulators, etc.)

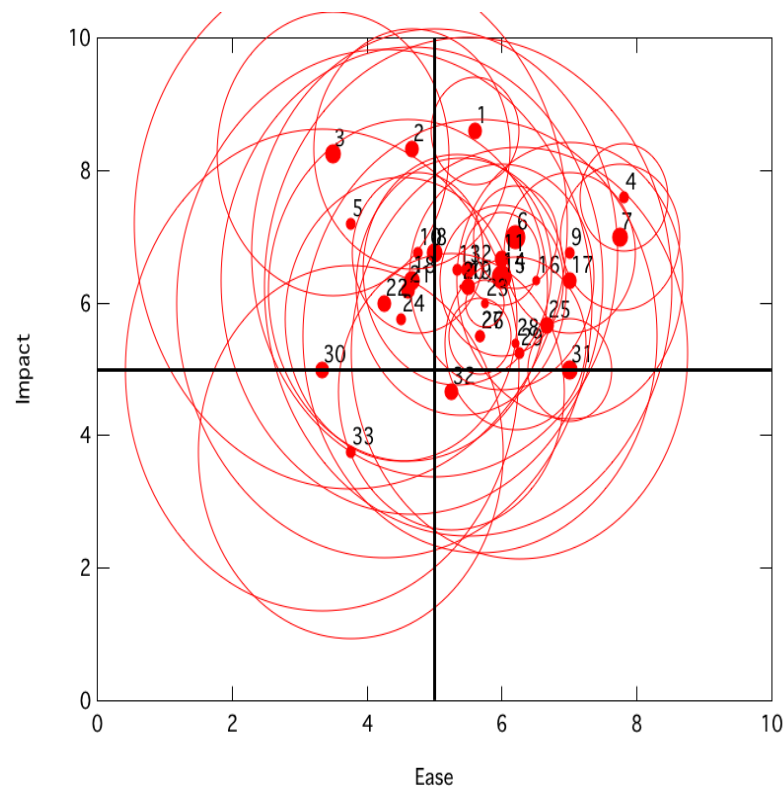
Energy Storage Safety Outreach and Education Working Group (cont'd)



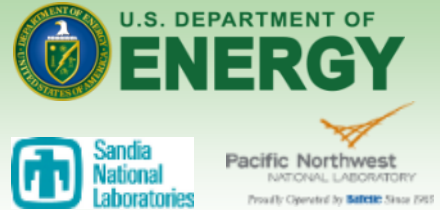
Top Issues in Safety Outreach and Incident Response

- A. Provide guidance and information on ESS installation and protection design
- B. Provide guidance and information operational safety including thermal management
- C. Develop first responder training material for responding to an ESS fire
- D. Develop guidance and information on ESS safety analysis through energy storage websites, the ESS Handbook, and by offering safety analysis courses to developers and startups
- E. Promote first responder knowledge and confidence by developing a template for providing information to and working with local fire departments and by make safe methods available to first responder groups through demonstration (practice system fire), videos, guides, and courses.
- F. Provide links to educational material on cyber security on energy storage websites
- G. Provide guidance and information on the safe transportation/delivery of energy storage systems

Safety Outreach and Incident Response Quad Chart



Website Development Plan



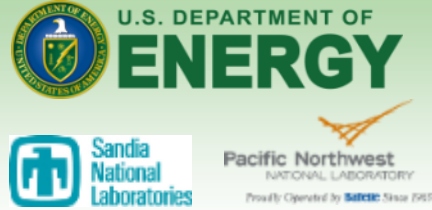
Website URL: http://www.sandia.gov/ess/sp_eduoverview.html

Description: This website will be a coordination and publication resource for the SO&IR working group. All working group materials will be made available, along with meeting notes, and .

Update 1:

- Changing to “Education” to “SO&IR”
- Editorial Changes
- Adding Meeting Schedule and Materials
 - Webinar Slides (.pdf)
 - SO&IR Survey (.doc)

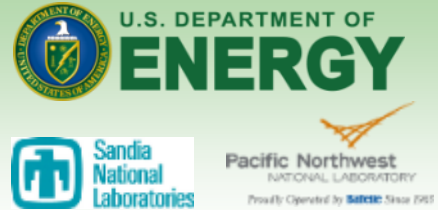
Website Development Plan



Planned Updates:

- Creating special sections for stakeholder groups
 - First Responders
 - Electrical Inspectors
 - Electrical Contractors
 - Regulators
- Upgrading schedule to a full calendar-of-events
- Adapt to working group needs (Input Required)

Safety Outreach and Incident Response Survey (Due October 23rd)



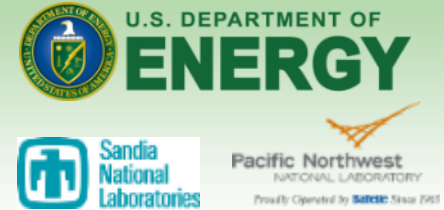
Name _____

Organization _____

1. What is bringing you to these activities (motivation)?

2. What is your background/experience in safety and energy storage?

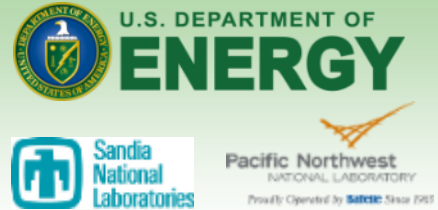
Safety Outreach and Incident Response Survey (Due October 23rd)



3. Which Task Groups are you interested in participating in / helping to lead?

- Provide guidance and information on ESS installation and protection design
- Provide guidance and information operational safety including thermal management
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- Promote first responder knowledge and confidence by developing a template for providing information to and working with local fire departments and by make safe methods available to first responder groups through demonstration (practice system fire), videos, guides, and courses.
- Provide links to educational material on cyber security on energy storage websites
- Provide guidance and information on the safe transportation/delivery of energy storage systems

Safety Outreach and Incident Response Survey (Due October 23rd)

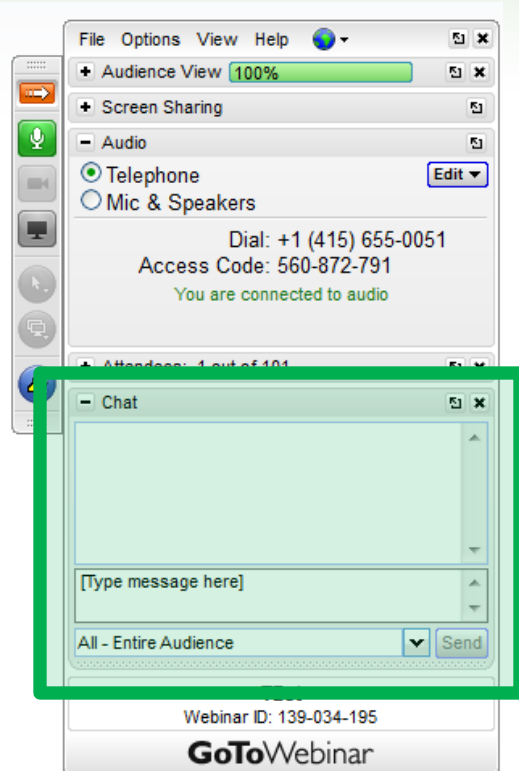


4. Are there other tasks you would like to see this group work on?

5. Do you have any suggestions or feedback on the format of meetings?

Due October 23rd

Questions



Please use chat window for questions:

- Questions on the website
- Questions on the survey
- General questions or comments

Next Meeting

November 4th, 2:30 pm EST (11:30 am PST)

David Rosewater, PE

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